

PATENTS & NPL ABSTRACTS

? show files

File 347:JAPIO Dec 1976-2010/Oct(Updated 110127)
(c) 2011 JPO & JAPIO

File 350:Derwent WPIX 1963-2011/UD-201110
(c) 2011 Thomson Reuters

File 155:MEDLINE(R) 1950-2011/Feb 11
(c) format only 2011 Dialog

File 5:Biosis Previews(R) 1926-2011/Feb W1
(c) 2011 The Thomson Corporation

File 972:EMBASE 1947-2011/Feb 15
(c) 2011 Elsevier B.V.

File 2:INSPEC 1898-2011/Feb W1
(c) 2011 The IET

File 6:NTIS 1964-2011/Feb W2
(c) 2011 NTIS, Intl Cpyrght All Rights Res

File 8:Ei Compendex(R) 1884-2011/Feb W2
(c) 2011 Elsevier Eng. Info. Inc.

File 45:EMCare 2011/Feb W2
(c) 2011 Elsevier B.V.

File 136:BioEngineering Abstracts 1966-2007/Jan
(c) 2007 CSA.

File 144:Pascal 1973-2011/Feb W1
(c) 2011 INIST/CNRS

File 24:CSA Life Sciences Abstracts 1966-2011/Jan
(c) 2011 CSA.

File 23:CSA Technology Research Database 1963-2011/Feb
(c) 2011 CSA.

File 95:TEME-Technology & Management 1989-2010/Oct W3
(c) 2010 FIZ TECHNIK

File 256:TecTrends 1982-2011/Feb W1
(c) 2011 Info.Sources Inc. All rights res.

File 35:Dissertation Abs Online 1861-2011/Jan
(c) 2011 ProQuest Info&Learning

File 65:Inside Conferences 1993-2011/Feb 15
(c) 2011 BLDSC all rts. reserv.

File 98:General Sci Abs 1984-2011/Jan
(c) 2011 The HW Wilson Co.

File 99:Wilson Appl. Sci & Tech Abs 1983-2011/Jan
(c) 2011 The HW Wilson Co.

File 10:AGRICOLA 70-2011/Feb
(c) format only 2011 Dialog

File 50:CAB Abstracts 1972-2011/Feb W2
(c) 2011 CAB International

File 203:AGRIS 1974-2011/Jan
Dist by NAL, Intl Copr. All rights reserved

File 164:Allied & Complementary Medicine 1984-2011/Feb
(c) 2011 BLHCTS

File 467:ExtraMED(tm) 2000/Dec
(c) 2001 Informania Ltd.

? ds

Set	Items	Description
S1	22142	SYMPAT?(3N)TONE?
S2	4631607	NEURAL? OR NEURON?
S3	7637465	RATIO?
S4	10128263	STIMULAT? OR STIMULUS? OR STIMULI? OR EXCIT??? OR EXCITATION??? OR ACTIVATE? OR AROUS??? OR TRIGGER?
S5	22977108	PRESSURE? OR TOUCH? OR HEAT? OR LIGHT?
S6	4612	S1 AND S2
S7	11150	S1 AND S5
S8	2388	S6 AND S7
S9	83	S8 AND S3
S10	1016	S8 AND S4
S11	40	S9 AND S10
S12	31	RD (unique items)
S13	24	S12 NOT PY>2005
S14	1134	TH() (10 OR 11)
S15	8	S1 AND S14
S16	5	RD (unique items)
S17	415	S1(7N)MEASUR?
S18	4	S17 AND TOUCH?
S19	64	S17 AND S2
S20	22	S19 AND S4
S21	16	RD (unique items)
S22	99700	PHYSICAL?(2N)THERAP?
S23	527320	MASSAGE? OR TOUCH?
S24	12	S1(10N)(S22 OR S23)
S25	11	RD (unique items)
S26	43	S1 AND S22
S27	63	S1 AND S23
S28	4	S26 AND S27
S29	4	RD (unique items)
S30	4	S22 AND S23 AND S1
S31	4	RD (unique items)
S32	113808	THERMAL?(4N)S4
S33	45	S1 AND S32
S34	9	S33 AND S2
S35	9	RD (unique items)
S36	31	S32 AND S5 AND S1
S37	23	S36 AND (NERVE? OR NERVOUS?)
S38	19	RD (unique items)
S39	11	S38 NOT PY>2005
S40	22643834	INTERVERTEB? OR VERTEBRA? OR SPINE? OR SPINAL OR SPINOUS OR LUMBAR OR VERTEBR? OR INTERSPINOUS OR BACKBONE OR BONE? ? OR DISC()NUCLEUS OR ORTHOPED? OR ORTHOPAED? OR SKELET? OR OSSEO? OR OSTEOAL OR OSTEOID OR OSTEOLOG? OR ANNULUS OR SYNOVIAL OR CONDYL?
S41	256357	(APPLY OR APPLYING OR APPLIED)(3N)FORCE?
S42	5543	S1 AND S40
S43	3	S42 AND S41
S44	11	S42 AND S22
S45	12	S42 AND S23
S46	21	S44 OR S45
S47	17	RD (unique items)
S48	14	S47 NOT PY>2005
S49	56	S16 OR S21 OR S31 OR S35 OR S39 OR S43 OR S48

S50 56 RD (unique items)
S51 47 S50 NOT PY>2005
S52 33 S40 AND S51

? t s52/3,k/1-33

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3,K/1 (Item 1 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

(c) format only 2011 Dialog. All rights reserved.

14078098 PMID: 11346214

Sympathetic nervous system activation in essential hypertension, cardiac failure and psychosomatic heart disease.

Esler M; Kaye D

Baker Medical Research Institute Melbourne, Australia.

Journal of cardiovascular pharmacology (United States) 2000 , 35 (7 Suppl 4) pS1-7 ,

ISSN: 0160-2446--Print 0160-2446--Linking **Journal Code:** 7902492

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't; Review

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

...hypertension: Such measurements in patients with essential hypertension disclose activation of the sympathetic outflows to **skeletal** muscle blood vessels, the heart and kidneys, particularly in younger patients. This sympathetic activation, in... ..attributable to blood pressure reduction, in protecting against hypertensive complications. Obesity-related hypertension: Understanding the **neural** pathophysiology of hypertension in the obese has been difficult. In normotensive obesity, renal **sympathetic tone** is doubled, but cardiac noradrenaline spillover (a **measure** of sympathetic activity in the heart) is only 50% of normal. In obesity-related hypertension... ..normotensive obese. Heart failure: In cardiac failure, the sympathetic nerves of the heart are preferentially **stimulated**. Noradrenaline release from the failing heart at rest in untreated patients is increased as much... ..abnormalities, particularly depressive illness, anxiety states, including panic disorder and mental stress, are involved here, '**triggering**' clinical cardiovascular events, and possibly also contributing to atherosclerosis development. The mechanisms of increased cardiac... (

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3,K/2 (Item 2 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

(c) format only 2011 Dialog. All rights reserved.

13842804 PMID: 10921528

The sympathetic system and hypertension.

Esler M

Baker Medical Research Institute, Prahran, Melbourne, Australia. esler@baker.edu.au
American journal of hypertension (UNITED STATES) Jun 2000 , 13 (6 Pt 2) p99S-105S , ISSN: 0895-7061--Print 0895-7061--Linking **Journal Code:** 8803676

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't; Review

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

...measurement of norepinephrine spillover) techniques demonstrates activation of sympathetic outflow to the heart, kidneys, and **skeletal** muscle vasculature in younger (< 45 years) patients. The increase in sympathetic activity is a mechanism... ..initiating and sustaining the blood pressure elevation. Sympathetic nervous activation also confers specific cardiovascular risk. **Stimulation** of the sympathetic nerves to the heart promotes the development of left ventricular hypertrophy and contributes to the genesis of ventricular arrhythmias and sudden death. Sympathetically mediated vasoconstriction in **skeletal** muscle vascular beds reduces the uptake of glucose by muscle, and is thus a basis for insulin resistance and consequent hyperinsulinemia. Understanding the **neural** pathophysiology of obesity-related hypertension has been more difficult. In normotensive obesity, renal **sympathetic tone** is doubled, but cardiac norepinephrine spillover (a **measure** of sympathetic activity in the heart) is only 50% of normal. In obesity-related hypertension... (

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3,K/3 (Item 3 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

(c) format only 2011 Dialog. All rights reserved.

13065358 PMID: 9830574

Effect of spinal cord injury on the heart and cardiovascular fitness.

Phillips W T; Kiratli B J; Sarkarati M; Weraarchakul G; Myers J; Franklin B A; Parkash I; Froelicher V

Department of Physical Education, Arizona State University, Tempe, USA.

Current problems in cardiology (UNITED STATES) Nov 1998 , 23 (11) p641-716 , ISSN: 0146-2806--Print 0146-2806--Linking **Journal Code:** 7701802

Publishing Model Print

Document type: Journal Article; Review

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Effect of spinal cord injury on the heart and cardiovascular fitness.

...cardiac function; greater stimulus for metabolic, cardiovascular, and pulmonary training

adaptations; and greater stimulus for **skeletal** muscle training adaptations. In addition, the availability of relatively inexpensive commercial FES units to elicit... ..return as a result of lower-limb blood pooling, as a result of lack of **sympathetic tone**, and a diminished or absent venous "muscle pump" in the legs. This latter mechanism perhaps... (

Descriptors: *Cardiovascular Diseases--etiology--ET; *Cardiovascular System --physiopathology--PP; *Exercise Therapy; *Physical Fitness; *Spinal Cord Injuries--physiopathology--PP ; ...DI; Autonomic Nervous System Diseases--therapy--TH; Cardiovascular Diseases--prevention and control--PC; Hemodynamics; Humans; **Spinal Cord Injuries--complications--CO**

Named Person:

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3,K/4 (Item 4 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

(c) format only 2011 Dialog. All rights reserved.

08735156 PMID: 3279437

Effects of soft tissue mobilization (Rolffing pelvic lift) on parasympathetic tone in two age groups.

Cottingham J T; Porges S W; Lyon T

Frances Nelson Health Center, Champaign, IL 61820.

Physical therapy (UNITED STATES) Mar 1988 , 68 (3) p352-6 , ISSN: 0031-9023--

Print 0031-9023--Linking **Journal Code:** 0022623

Publishing Model Print

Document type: Comparative Study; Journal Article; Research Support, Non-U.S. Gov't; Review

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

...heart rate. Heart rate patterns were assessed during the pelvic lift and during the durational **touch** and baseline control conditions. Two groups of healthy subjects were tested: Group 1 contained 20... ..a somatovisceral-parasympathetic reflex characterized by a significant increase in parasympathetic tone relative to durational **touch** and baseline conditions. Group 2 did not exhibit a parasympathetic change during the pelvic lift... ..clinically successful in treating myofascial pain syndromes and other musculoskeletal dysfunctions characterized by reduced parasympathetic **tone** and excessive **sympathetic** activity. (

Descriptors: *Manipulation, **Orthopedic**; *Muscle Tonus; *Parasympathetic Nervous System--physiology--PH; *Pelvis--physiology--PH

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3,K/5 (Item 5 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

(c) format only 2011 Dialog. All rights reserved.

05101364 PMID: 1179891

[Effectiveness of the complex therapy using physical factors of patients with spinal cord injuries]

Effektivnost' kompleksnogo lecheniia fizicheskimi faktorami bol'nykh s travmoi pozvonochnika i spinnogo mozga
Kalny'sh la la

Zhurnal nevropatologii i psikiatrii imeni S.S. Korsakova (Moscow, Russia - 1952) (USSR) 1975 , 75 (9) p1324-8 , ISSN: 0044-4588--Print 0044-4588--Linking

Journal Code: 8710066

Publishing Model Print

Document type: English Abstract; Journal Article

Languages: RUSSIAN

Main Citation Owner: NLM

Record type: MEDLINE; Completed

[Effectiveness of the complex therapy using physical factors of patients with spinal cord injuries]

It is demonstrated that a trauma of the spine with a damage of the spinal cord in the thoracal area leads to an increase in the tone of the sympathetic and parasympathical part of the vegetative nervous system and arterial tone of the affected extremities... ..the author found a correlation between the clinical picture and a subsequent increase in the tone of the sympathetic part of the vegetative nervous system and arterial tone of the legs. (

Descriptors: *Physical Therapy Modalities; *Spinal Cord Injuries --therapy--TH; *Spinal Injuries--therapy--TH ; ...DU; Exercise Therapy; Humans; Hydrogen Sulfide--therapeutic use--TU; Iodides--therapeutic use--TU; Iontophoresis; Latvia; **Massage**; Middle Aged; Morphine Derivatives--diagnostic use--DU; Mud Therapy; Muscle Tonus; Skin Tests; Spinal Cord Injuries--physiopathology--PP; Spinal Injuries--physiopathology--PP; Vascular Resistance

Named Person:

Dialog eLink: **ISPTO Full Text Retrieval Options**

52/3,K/6 (Item 6 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

(c) format only 2011 Dialog. All rights reserved.

05007283 PMID: 1122215

Arterial baroreceptor function in differential cardiovascular adjustments induced by central thermal stimulation.

Conradt M; Kullmann R; Matsuzaki T; Simon E

Basic research in cardiology (GERMANY, WEST) Jan-Feb 1975 , 70 (1) p10-28 ,

ISSN: 0300-8428--Print 0300-8428--Linking **Journal Code: 0360342**

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Arterial baroreceptor function in differential cardiovascular adjustments induced by central thermal stimulation.

...choline and were kept under artificial ventilation. Both carotid bifurcations were denervated and the Vagus **nerves** were cut in the neck. Regional blood flow in the skin and the intestine, cardiac output, heart rate and arterial **pressure** were determined before, during and after **spinal cord heating** and cooling. Further experiments were performed in which, in addition, sympathetic effects on the heart... ..compared with those obtained in a preceding investigation from dogs with intact baroreceptors and vagus **nerves**. As in intact dogs, appropriate thermoregulatory adjustments of skin blood flow were induced by **thermal stimulation** of the **spinal cord** after baroreceptor denervation and vagotomy. However, blood **pressure** homeostasis was lost. The pattern of cardiovascular adjustments during **heating** consisted in cutaneous vasodilatation intestinal vasoconstriction and, due to sympathetic activation an increase of heart rate and cardiac output. This pattern was qualitatively identical with that intact animals. During **spinal cord cooling** the cardiovascular response pattern consisted in cutaneous vasoconstriction, intestinal vasoconstriction and, depending on... ..but basic features were still present as indicated by opposite changes of cardiac and vascular **sympathetic tone** during cooling. It is concluded that the baroreceptor signals play no primary role in the... ..of observations in animals with intact baroreceptor input. However, baroreceptor signals contribute significantly to blood **pressure** homeostasis which is normally maintained during **spinal thermal stimulation**. (

Descriptors: ; Animals; Arteries; Blood **Pressure**; Cardiac Volume; Cold Temperature; Dogs; Heart Rate; Hot Temperature; Intestines--blood supply--BS; Neurophysiology; Physical Stimulation; Regional Blood Flow; Skin--blood supply--BS; **Spinal Cord**; Sympathetic Nervous System --physiology--PH; Vagotomy

Named Person:

Dialog eLink:

USPTO Full Text Retrieval Options

52/3,K/7 (Item 1 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

(c) 2011 The Thomson Corporation. All rights reserved.

18623314 **Biosis No.:** 200510317814

Insulin-induced hypoglycemia stimulates gastric vagal activity and motor function without increasing cardiac vagal activity

Author: Hjelland Ina Elen (Reprint); Oveland Nils Petter; Leversen Katrine; Berstad Arnold; Hausken Trygve

Author Address: Haukeland Univ Hosp, Inst Med, NO-5021 Bergen, Norway**Norway

Author E-mail Address: ina.hjelland@med.uib.no

Journal: Digestion 72 (1): p 43-48 2005 2005

ISSN: 0012-2823

Document Type: Article

Record Type: Abstract

Language: English

Insulin-induced hypoglycemia stimulates gastric vagal activity and motor function without increasing cardiac vagal activity

Abstract: ...in healthy subjects. Methods: Twenty healthy volunteers (10 males) were examined with and without vagal **stimulation** by insulin-induced hypoglycemia using a glucose clamp technique. Stomach function was tested by drinking... ..polypeptide (PP) as a measure of gastric vagal activity, and skin conductance (SC) as a **measure** of **sympathetic tone**. Results: Insulin-induced hypoglycaemia increased drinking capacity ($p=0.002$), gastric emptying ($p=0.02$...

DESCRIPTORS:

Major Concepts: ...Neural Coordination

Biosystematic Names: ...Primates, Mammalia, **Vertebrata**, Chordata, Animalia

Common Taxonomic Terms: ...Vertebrates

Diseases:

Dialog eLink: **USFTO Full Text Retrieval Options**

52/3,K/8 (Item 2 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

(c) 2011 The Thomson Corporation. All rights reserved.

18041545 **Biosis No.:** 200400412334

Efficacy of combined kinesi- and psychotherapy in the treatment of patients with migraine.

Author: Grigorieva V N; Gustov A V; Komilova L E; Kulikova O A

Journal: Zhurnal Nevrologii i Psikiatrii Imeni S. S. Korsakova 103 (12): p 20-25 2003 2003

Medium: print

Document Type: Article

Record Type: Abstract

Language: Russian

Abstract: ...individual kinesi- and psychotherapy, and patients of group 2 (18) received a course of standard **physical therapy** and explanatory psychotherapy. After the treatment course, a significant decrease in intensity of headaches of... ..increased bicycle exercise tolerance, equalizing of the ratio between activities of ergo- and trophotropic systems, **sympathic** and **parasympathic tones** evaluated by mathematical analysis of

heart rhythm variability, a decrease of the level of emotional... ..group differences in regression extent of this index. The results obtained indicate efficacy of combined physical therapy and psychocorrection in the treatment of migraine patients. Moreover, individual approach to kinesio- and psychotherapy...

DESCRIPTORS:

Biosystematic Names: ...Primates, Mammalia, **Vertebrata**, Chordata, Animalia

Organisms:

Common Taxonomic Terms: ...**Vertebrates**

Diseases:

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3.K/9 (Item 3 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

(c) 2011 The Thomson Corporation. All rights reserved.

11575796 Biosis No.: 199345006776

Heart rate variability: Can it measure sympathetic tone?

Author: Ahmed Mirza; Goldberger Jeffrey; Singer Donald; Kadish Alan

Author Address: Northwestern Univ. Med. Sch., Chicago, IL, USA**USA

Journal: Circulation 86 (4 SUPPL. 1): p 1657 1992

Conference/Meeting: 65th Scientific Sessions of the American Heart Association New Orleans, Louisiana, USA November 16-19, 1992; 19921116

ISSN: 0009-7322

Document Type: Meeting

Record Type: Citation

Language: English

Heart rate variability: Can it measure sympathetic tone?

DESCRIPTORS:

Major Concepts: ...Neural Coordination

Biosystematic Names: ...Primates, Mammalia, **Vertebrata**, Chordata, Animalia

Common Taxonomic Terms: ...**Vertebrates**

Diseases:

Miscellaneous Terms: Concept Codes: ...STIMULUS DEPENDENCE

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3.K/10 (Item 4 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

(c) 2011 The Thomson Corporation. All rights reserved.

11402846 Biosis No.: 199294104687

HYPERRESPONSIVENESS OF SYMPATHOADRENAL SYSTEM IN CONSCIOUS DOCA-SODIUM CHLORIDE AND SHR RATS IN RESPONSE TO

ACUTE HEMORRHAGIC HYPOTENSION

Author: DROLET G (Reprint); DE CHAMPLAIN J

Author Address: CENTRE RECHERCHE CHUL, UNITE RECHERCHE SUR L'HYPERTENSION, 2705 BOUL LAURIER, STE-FOY, QUEBEC G1V 4G2**CANADA

Journal: Clinical and Investigative Medicine 15 (4): p 360-370 1992

ISSN: 0147-958X

Document Type: Article

Record Type: Abstract

Language: ENGLISH

Abstract: The **sympathoadrenal basal tone** and reactivity were evaluated by the **measure** of plasma norepinephrine (NE) and epinephrine (EPI) levels in chronically cannulated awake and unrestrained animals... ..the baroreflex functions or in the local modulatory mechanisms. In addition, the acute hemorrhagic hypotension **triggered** compensatory mechanisms which permitted a rapid return of the MAP to the baseline values in...

DESCRIPTORS:

Major Concepts: ...Neural Coordination

Biosystematic Names: ...Rodentia, Mammalia, **Vertebrata**, Chordata, Animalia

Common Taxonomic Terms: ...Nonhuman **Vertebrates**;**Vertebrates**

Diseases:

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3.K/11 (Item 5 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

(c) 2011 The Thomson Corporation. All rights reserved.

09598145 **Biosis No.:** 198987046036

DO INCREASED CATECHOLAMINES AND PLASMA METHIONINE ENKEPHALIN IN CIRRHOSIS PROMOTE BLEEDING ESOPHAGEAL VARICES

Author: THORNTON J R (Reprint); DEAN H G; LOSOWSKY M S

Author Address: DJEP MED, ST JAMES'S UNIV HOSP, LEEDS, UK**UK

Journal: QJM 68 (255): p 541-552 1988

ISSN: 0033-5622

Document Type: Article

Record Type: Abstract

Language: ENGLISH

Abstract: ...peptides may play a part in this vasodilatation. As initial investigation of this hypothesis. we **measured** noradrenaline (an indicator of **sympathetic tone**), adrenaline and methionine enkephalin in the plasma of patients with cirrhosis with oesophageal

varices which... use of opioid antagonists may enable determination of whether elevated plasma opioid peptides in cirrhosis **stimulate** the increase in sympathetic tone and plasma adrenaline, and promote bleeding oesophageal varices.

DESCRIPTORS:

Major Concepts: ...Neural Coordination

Biosystematic Names: ...Primates, Mammalia, **Vertebrata**, Chordata, Animalia

Common Taxonomic Terms: ...**Vertebrates**

Diseases:

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3,K/12 (Item 6 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

(c) 2011 The Thomson Corporation. All rights reserved.

09554076 Biosis No.: 198987001967

**SYMPATHETIC TONE AFFECTS HUMAN LIMB VASCULAR RESISTANCE
DURING A MAXIMAL METABOLIC STIMULUS**

Author: SINOWAY L I (Reprint); WILSON J S; ZELIS R; SHENBERGER J;
MCLAUGHLIN D P; MORRIS D L; DAY F P

Author Address: DIV CARDIOL, DEP MED, MILTON S HERSHEY MED CENT, PA
STATE UNIV, HERSHEY, PA 17033, USA**USA

Journal: American Journal of Physiology 255 (4 PART 2): p H937-H946 1988

ISSN: 0002-9513

Document Type: Article

Record Type: Abstract

Language: ENGLISH

**SYMPATHETIC TONE AFFECTS HUMAN LIMB VASCULAR RESISTANCE
DURING A MAXIMAL METABOLIC STIMULUS**

Abstract: ...arterial occlusion (the peak reactive hyperemic blood flow response, RHBf) both before and after a **stimulus** to induce heightened sympathetic tone. The **stimulus** was the application of ice to the forehead for 90 s just before and during... .cntdot. min-1 .cntdot. 100 ml-1; not significant), but R during the maximal metabolic **stimulus** rose (pre 2.5 vs. post 3.2 mmHg .cntdot. min .cntdot. 100 ml; P < 0.05). To examine the effects of heightened **sympathetic tone** on conduit vessels, simultaneous **measurements** of maximal metabolic blood flow (RHBf) and brachial artery Doppler velocity (V, cm/s) were...

DESCRIPTORS:

Major Concepts: ...Neural Coordination

Biosystematic Names: ...Primates, Mammalia, **Vertebrata**, Chordata, Animalia

Common Taxonomic Terms: ...**Vertebrates**

Diseases:

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3,K/13 (Item 7 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

(c) 2011 The Thomson Corporation. All rights reserved.

09211702 **Biosis No.:** 198886051623

MODULATION OF AN IDIOVENTRICULAR RHYTHM BY VAGAL TONE

Author: WAXMAN M B (Reprint); CUPPS C L; CAMERON D A

Author Address: TORONTO GEN HOSP, EATON WING 12-215, 200 ELIZABETH ST. TORONTO, ONT M5G 2C4, CAN**CANADA

Journal: Journal of the American College of Cardiology 11 (5): p 1052-1060 1988

ISSN: 0735-1097

Document Type: Article

Record Type: Abstract

Language: ENGLISH

Abstract: ...is described. This pacemaker was slowed by maneuvers that enhanced vagal tone, including carotid sinus **massage**, the postrelease phase of the Valsalva maneuver and phenylephrine. The pacemaker was also slowed by... ..receptor blocking drug (hyosine butylbromide). The actions of these maneuvers and agents were independent of **sympathetic tone** as propranolol pretreatment did not alter their effects. Similarly, propranolol did not affect the pacemaker... ..current because verapamil did not affect its rate. The pacemaker accelerated in response to increased **sympathetic tone** induced by exercise and upright tilting and to the adrenergic agonist isoproterenol. The pacemaker was...

DESCRIPTORS:

Biosystematic Names: ...Primates, Mammalia, **Vertebrata**, Chordata, Animalia

Organisms:

Common Taxonomic Terms: ...**Vertebrates**

Diseases:

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3,K/14 (Item 8 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

(c) 2011 The Thomson Corporation. All rights reserved.

08676563 **Biosis No.:** 198784030712

STUDIES ON FUNCTIONAL MODIFICATIONS OF THERMOREGULATORY MECHANISMS IN HEAT-ACCLIMATED RABBITS

Author: FUJIWARA M (Reprint); OHIWATARI N; TSUCHIYA K; KOSAKA M

Author Address: DEP ENVIRON PHYSIOL, INST TROPICAL MED, NAGASAKI UNIV, SAKAMOTO-MACHI 12-4, NAGASAKI 852, JPN**JAPAN

Journal: Tropical Medicine 28 (4): p 301-312 1986

ISSN: 0385-5643

Document Type: Article

Record Type: Abstract

Language: ENGLISH

Abstract: ...relative humidity (r.h.) = 60%) for 24 weeks (Heat-Acclimated). And, various parameters to general **thermal stimulation** were compared with those in control rabbits (Control) which were reared in thermoneutral environment ($T_a = 25.0^{\circ}\text{C}$, r.h. = 60%) for same duration. For the general **thermal stimulation**, rabbits were lightly restrained only around the cervical region under the conscious condition. The changing... ..these results, it is assumed that functional modifications during heat acclimation might occur in the **neuronal mechanisms** which were influenced by anesthesia. In order to know what is important for these... ..of .alpha. adrenergic-blocker (phentolamine mesylate, 3 mg/kg, i.v.) were observed and these **sympathetic vasoconstrictor tones** were compared. Before intravenous administration of phentolamine, T_{ea} at 25.0°C was maintained...

Descriptors: THERMAL STIMULATION HUMIDITY VASOCONSTRICTOR TONE

DESCRIPTORS:

Major Concepts:

Biosystematic Names: ...Lagomorpha, Mammalia, **Vertebrata**, Chordata, Animalia

Organisms:

Common Taxonomic Terms: ...Nonhuman **Vertebrates**;**Vertebrates**

Diseases:

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3.K/15 (Item 9 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

(c) 2011 The Thomson Corporation. All rights reserved.

07615362 **Biosis No.:** 198579034261

HALOTHANE SENSITIZES CUTANEOUS NOCICEPTORS IN MONKEYS

Author: CAMPBELL J N (Reprint); RAJA S N; MEYER R A

Author Address: DEP NEUROSURG, JOHNS HOPKINS UNIV SCH MED,
BALTIMORE, MD 21205, USA**USA

Journal: Journal of Neurophysiology (Bethesda) 52 (4): p 762-770 1984

ISSN: 0022-3077

Document Type: Article

Record Type: Abstract

Language: ENGLISH

Abstract: ...responses of C-fiber (CMH) and A-fiber (AMH) nociceptive afferents sensitive to mechanical and **heat** stimuli were studied in monkeys. The response to **heat** stimuli was studied with use of a laser **thermal stimulator** that provided stepped

increases in skin temperature over a 7.5-mm-diameter area with... combination of halothane (0.8%) and N₂O (67%). A standardized set of 10 3-s **heat** stimuli ranging from 41-49 degree. C delivered every 30 s were applied to the receptive field. Both AMH and CMH had a lower threshold and greater response to suprathreshold **heat** stimuli under conditions of halothane-N₂O anesthesia. The threshold to mechanical stimuli, as tested by... monkeys anesthetized with halothane-N₂O. The effects of halothane did not relate to effects on **sympathetic tone**, blood **pressure** or cutaneous perfusion. The effect of halothane was still present when sympathetic supply to the extremity was interrupted by sectioning the brachial plexus or by applying local anesthetic to the **nerve** proximal to the recording site. The halothane increased the response of CMH even when the... parameters could not be the basis for the effects of halothane. Halothane sensitizes nociceptors to **heat** stimuli in a reversible dose-dependent manner. This effect is independent of effects on **sympathetic tone** and perfusion. The effects of halothane may be the result of direct effects on the...

Descriptors: MACACA-MULATTA MACACA-FASCICULARIS MECHANICAL STIMULI HEAT NITROUS OXIDE PENTOBARBITAL SODIUM METHOHEXITAL PHENYLEPHRINE ELECTROPHYSIOLOGY

DESCRIPTORS:

Major Concepts: ...Nervous System... Neural Coordination

Biosystematic Names: ...Primates, Mammalia, **Vertebrata**, Chordata, Animalia

Organisms:

Common Taxonomic Terms: ...Nonhuman **Vertebrates**; ... **Vertebrates**

Diseases:

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3,K/16 (Item 10 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

(c) 2011 The Thomson Corporation. All rights reserved.

07169062 **Biosis No.:** 198477000973

**PLASMA CATECHOLAMINES DO NOT INVARIABLY REFLECT
SYMPATHETICALLY INDUCED CHANGES IN BLOOD PRESSURE IN MAN**

Author: MANCIA G (Reprint); FERRARI A; GREGORINI L; LEONETTI G; PARATI G; PICOTTI G B; RAVAZZANI C; ZANCHETTI A

Author Address: CLIN MEDICA IV, PADIGLIONE SACCO, VIA F SFORZA 35,
20122 MILANO, ITALY** ITALY

Journal: Clinical Science (London) 65 (3) : p 227-236 1983

ISSN: 0143-5221

Document Type: Article

Record Type: Abstract

Language: ENGLISH

Abstract: ...were measured radioenzymatically in 9 subjects during 4 min pressor and depressor responses (intra-arterial **measurements**) induced by increasing and reducing

sympathetic vasoconstrictor tone via carotid baroreceptor deactivation and **stimulation** (neck chamber technique). During the pressor response (15 \pm 3 mmHg, mean \pm SE) plasma NE and...

DESCRIPTORS:

Major Concepts: ...**Neural** Coordination

Biosystematic Names: ...Primates, Mammalia, **Vertebrata**, Chordata, Animalia

Common Taxonomic Terms: ...**Vertebrates**

Diseases:

Dialog eLink:

USPTO Full Text Retrieval Options

52/3,K/17 (Item 11 from file: 5)

DIAL.OG(R)File 5: Biosis Previews(R)

(c) 2011 The Thomson Corporation. All rights reserved.

06619550 **Biosis No.:** 198274035973

**RENAL AND CUTANEOUS VASO MOTOR AND RESPIRATORY RATE
ADJUSTMENTS TO PERIPHERAL COLD AND WARM STIMULI AND TO
BACTERIAL ENDO TOXIN IN CONSCIOUS RABBITS**

Author: RIEDEL W (Reprint); KOZAWA E; IRIKI M

Author Address: MAX-PLANCK-INST PHYSIOL KLIN FORSCHUNG, WG
KERCKHOFF-INST, D-6350 BAD NAUHEIM, FRG**WEST GERMANY

Journal: Journal of the Autonomic Nervous System 5 (2): p 177-194 1982

ISSN: 0165-1838

Document Type: Article

Record Type: Abstract

Language: ENGLISH

Abstract: In conscious rabbits, peripheral cold stimuli decreased respiratory rate and increased cutaneous vasomotor **tone** while simultaneously renal **sympathetic nervous** discharge decreased. Peripheral warm stimuli produced the reverse pattern of autonomic effector activity. Injection of... ..warm ambient temperature elicited a biphasic fever response. Within the first 60 min, cutaneous vasomotor **tone** increased, and renal **sympathetic** activity decreased simultaneously. Ear skin vessels dilated and renal sympathetic activity increased by .apprx. 100... ..experiments and showed a negative correlation with the changes of renal constrictor activity during peripheral **thermal stimulation** but only in the 1st phase of fever. Renal innervation is involved in the typical... ..autonomic activity pattern by which temperature homeostasis is preserved. The vasomotor patterns of cold and **heat** stress developing during fever are compatible with the concept of a changed set-point of... ..The depressed respiratory rate and the lack of the renal vascular response to the increased **nervous** activity during the 2nd fever phase and their reversal to normal after acetylsalicylate indicate the...

DESCRIPTORS:

Major Concepts: ...**Nervous System**... ..**Neural** Coordination

Biosystematic Names: ...Lagomorpha, Mammalia, **Vertebrata**, Chordata, Animalia

Common Taxonomic Terms: ...Nonhuman Vertebrates; ...Vertebrates
Diseases:

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3,K/18 (Item 12 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

(c) 2011 The Thomson Corporation. All rights reserved.

0000952993 Biosis No.: 19583200040571

On the physiology of a sympathetic ganglion and the question of vasodilators and sympathetic tone

Original Language Title: Zur Physiologie eines sympathischen Ganglions und zur Frage der Vasodilatoren und des sympathischen Tonus

Author: CANNON P; RAULE W; SCHAEFER H

Author Address: Physiol. Inst. U., Heidelberg

Journal: PFLUGERS ARCH GES PHYSIOL 260 ((2)): p 116-136 1954 1954

Document Type: Article

Record Type: Abstract

Language: Unspecified

On the physiology of a sympathetic ganglion and the question of vasodilators and sympathetic tone

Abstract: ...following on stimulation of afferent nerves was only possible up to frequencies of 3/second. **Thermal stimulation** of the skin had no effect. In spontaneously active fibers this activity was inhibited on...

DESCRIPTORS:

Major Concepts: ...Neural Coordination

Biosystematic Names: ...Carnivora, Mammalia, Vertebrata, Chordata, Animalia

Common Taxonomic Terms: ...Nonhuman Vertebrates; ...Vertebrates
Diseases:

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3,K/19 (Item 1 from file: 972)

DIALOG(R)File 972: EMBASE

(c) 2011 Elsevier B.V. All rights reserved.

0080095837 EMBASE/MEDLINE No: 2004280113

Towards improved clinical and physiological assessments of recovery in spinal cord injury: A clinical initiative

Ellaway P.H.; Anand P.; Bergstrom E.M.K.; Catley M.; Davey N.J.; Frankel H.L.; Jamous A.; Mathias C.; Nicotra A.; Savic G.; Short D.; Theodorou S.

Div. of Neurosci. and Psychol. Med., Imperial College, London, United Kingdom;
Imperial College, Charing Cross Campus, St Dunstan's Road, London W6 8RP, United Kingdom

Corresp. Author/Affil: Ellaway P.H.: Imperial College, Charing Cross Campus, St Dunstan's Road, London W6 8RP, United Kingdom

Spinal Cord (Spinal Cord) (United Kingdom) June 1, 2004 , 42/6 (325-337)

CODEN: SPCOF **ISSN:** 1362-4393

Item Identifier (DOI): [10.1038/sj.sc.3101596](https://doi.org/10.1038/sj.sc.3101596)

Document Type: Journal ; Conference Paper **Record Type:** Abstract

Language: English **Summary language:** English

Number of References: 63

Towards improved clinical and physiological assessments of recovery in spinal cord injury: A clinical initiative

Clinical practice and scientific research may soon lead to treatments designed to repair spinal cord injury. Repair is likely to be partial in the first trials, extending only one... injury. Furthermore, treatments that are becoming available are likely to be applied to the thoracic spinal cord to minimise loss of function resulting from damage to surviving connections. These provisos have... ..of clinical and physiological tests designed (1) to determine the level and density of a spinal cord injury, (2) to provide reliable monitoring of recovery over one or two spinal cord segments, and (3) to provide indices of function provided by thoracic spinal root innervation, presently largely ignored in assessment of spinal cord injury. This article reviews progress of the Clinical Initiative, sponsored by the International Spinal Research Trust, to advance the clinical and physiological tests of sensory, motor and autonomic function...

Medical Descriptors:

* spinal cord injury

...nerve fiber; neurology; nonhuman; pain; physiology; priority journal; pyramidal tract; quantitative analysis; reflex; sensory evaluation; skeletal muscle; skin function; skin sensation; spinal nerve; superior oblique muscle; sympathetic tone; temperature sensitivity; touch; treatment outcome; vibration sense

Orig. Descriptors:

Dialog eLink: **USPFO Full Text Retrieval Options**

52/3.K/20 (Item 2 from file: 972)

DIALOG(R)File 972: EMBASE

(c) 2011 Elsevier B.V. All rights reserved.

0078784035 **EMBASE/MEDLINE No:** 2001390418

Complex regional pain syndrome and chiropractic

Muir J.M.; Vernon H.

Intern, Canadian Memorial Chiropractic College, Toronto, Ontario, Canada

...increases the energy cost of exercise, increases post-exercise energy expenditure and the potential of **skeletal** muscles to utilize lipids, and also favours a decrease in post-exercise intake. Moreover, the... ..mediated by an activation of sympathetic nervous system activity that seems to be specific to **skeletal** muscle. It is also important to manipulate macronutrient composition in order to reduce fat intake...

Medical Descriptors:

* body fat; *energy balance; *obesity--etiology--et; *obesity--therapy --th; *physical activity

...energy expenditure; exercise; fat intake; feeding behavior; food composition; human; lifestyle; lipid storage; muscle metabolism; **skeletal** muscle; **sympathetic tone**

Orig. Descriptors:

Dialog eLink: **USPTG Full Text Retrieval Options**

52/3,K/22 (Item 4 from file: 972)

DIALOG(R)File 972: EMBASE

(c) 2011 Elsevier B.V. All rights reserved.

0077278581 EMBASE/MEDLINE No: 1998188740

Physical activity, skeletal muscle beta-adrenoceptor changes and oxidative metabolism in experimental chronic heart failure

Michel C.; Chati Z.; Mertes P.-M.; Escanye J.-M.; Zannad F.

Pharmacology and Cardiology, Equipe d'Accueil 'Insuffisance C., Lab. de Chir. et Med. Exp., 54500 Vandoeuvre les Nancy, France

Corresp. Author/Affil: Zannad F.: Equipe d'Acc. 'Insuffisance Card.', Lab. de Chir./Medecine Experimentale, 9, avenue de la Fores de Haye, 54500 Vandoeuvre les Nancy, France

Fundamental and Clinical Pharmacology (Fundam. Clin. Pharmacol.) (France) July 27, 1998 , 12/3 (263-269)

CODEN: FCPHE **ISSN:** 0767-3981

Document Type: Journal ; Article **Record Type:** Abstract

Language: English **Summary language:** English

Number of References: 48

Physical activity, skeletal muscle beta-adrenoceptor changes and oxidative metabolism in experimental chronic heart failure

In chronic heart failure (CHF), changes in sympathetic nervous activity and **skeletal** muscle metabolism contribute to a limitation in the capacity for exercise. The aim of this study was to investigate the potential relationships between physical deconditioning, **skeletal** muscle beta- adrenoceptor (beta-AR) characteristics and muscle metabolic changes in rats with coronary ligation.... CHF suggests that physical deconditioning could not account for the muscle metabolic changes. Changes in **skeletal** muscle energy metabolism were accompanied by changes in beta-AR density, occurring in typically

cord dynorphin expression. Incidence and severity of autotomy were assessed after the intraperitoneal administration of... ..In a subset of two rats from each treatment group, transcardiac perfusion was performed and **spinal** cords were processed for substance P immunoreactivity. GM SUB 1 at 10 and 20 mg... ..0.0001, respectively). However, GM SUB 1, at the doses studied, failed to alter the **spinal** substance P depletion 21 days after SCN. These results indicate that the ganglioside GM SUB...

Medical Descriptors:

*

...drug effect; eye color; male; nerve regeneration; nociception; nonhuman; pain; priority journal; rat; sciatic nerve; **sympathetic tone**; weight reduction

Orig. Descriptors:

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3,K/26 (Item 8 from file: 972)

DIALOG(R)File 972: EMBASE

(c) 2011 Elsevier B.V. All rights reserved.

0070466148 EMBASE/MEDLINE No: 1976033144

Diversity of regional sympathetic outflow in integrative cardiovascular control: patterns and mechanisms

Simon E.; Riedel W.

Max Planck Inst. Physiol. Klin. Forsch., W.G. Kerckhoff Inst., Bad Nauheim, Germany

Corresp. Author/Affil: : Max Planck Inst. Physiol. Klin. Forsch., W.G. Kerckhoff Inst., Bad Nauheim, Germany

Brain Research (BRAIN RES.) December 1, 1975 , 87/2-3 (323-333)

CODEN: BRREA **ISSN:** 0006-8993

Document Type: Journal ; Article **Record Type:** Abstract

Language: English

Reflux inputs from cardiovascular receptors, though essential for blood **pressure** homeostasis, play no basic role in the generation of the sympathetic response patterns which are induced by **spinal thermal stimulation** and by changes of blood gas composition. It is concluded that these patterns of regionally... ..medullary cardiovascular control centers. The apparent functional significance of the regionally diverse sympathetic responses to **thermal stimulation** and to changes of blood gas composition further suggests that the term 'reflex' may be...

Medical Descriptors:

* blood gas; *blood **pressure**; *cardiovascular system; *central **nervous** system; *circulation; *denervation; *heart rate; * homeostasis; *hypercapnia; *hypothalamus; *hypoxia; *mechanoreceptor; * medulla oblongata; *pressorceptor; *sinus node; *skin temperature; *stress ; *stretch receptor; ***sympathetic nerve**; ***sympathetic tone**; *temperature; *vagus; *vagus nerve

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3.K/27 (Item 9 from file: 972)

DIALOG(R)File 972: EMBASE

(c) 2011 Elsevier B.V. All rights reserved.

0064631295 EMBASE/MEDLINE No: 1179891

Effectiveness of the complex therapy using physical factors of patients with spinal cord injuries

Effektivnost' kompleksnogo lecheniia fizicheskimi faktorami bol'nykh s travmoi pozvonochnika i spinnoogo mozga

Kalny'sh I.I.

Corresp. Author/Affil: Kalny'sh I.I.

Zhurnal nevropatologii i psikiatrii imeni S.S. Korsakova (Moscow, Russia : 1952) (Zh Nevropatol Psikihiatr Im S S Korsakova) (Russian Federation) December 1, 1975 , 75/9 (1324-1328)

ISSN: 0044-4588

Document Type: Journal ; Article **Record Type:** Abstract **File Segment:** Medline

Language: Russian

Effectiveness of the complex therapy using physical factors of patients with spinal cord injuries

It is demonstrated that a trauma of the **spine** with a damage of the **spinal** cord in the thoracal area leads to an increase in the **tone** of the **sympathical** and parasympathical part of the vegetative nervous system and arterial tone of the affected extremities... ..the author found a correlation between the clinical picture and a subsequent increase in the **tone** of the **sympathical** part of the vegetative nervous system and arterial tone of the legs.

Medical Descriptors:

* physiotherapy; ***spinal** cord injury--therapy--th; ***spine** injury--therapy--th adolescent; adult; aged; article; bath; blood pressure; female; human; iontophoresis; kinesiotherapy; Latvia; male; **massage**; middle aged; mud therapy; muscle tone; pathophysiology; skin test; vascular resistance

Orig. Descriptors:

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3.K/28 (Item 10 from file: 972)

DIALOG(R)File 972: EMBASE

(c) 2011 Elsevier B.V. All rights reserved.

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3.K/29 (Item 11 from file: 972)

DIALOG(R)File 972: EMBASE

(c) 2011 Elsevier B.V. All rights reserved.

0080063342 EMBASE/MEDLINE No: 2004248421

Does sympathetic nerve discharge affect the firing of myelinated cutaneous afferents in humans?

Elam M.; Macefield V.G.

Institute of Clinical Neuroscience, Sahlgren University Hospital, S-413 45 Goteborg, Sweden

Author email: mikael.elam@neuro.gu.se

Corresp. Author/Affil: Elam M.: Institute of Clinical Neuroscience, Sahlgren University Hospital, S-413 45 Goteborg, Sweden

Corresp. Author Email: mikael.elam@neuro.gu.se

Autonomic Neuroscience: Basic and Clinical (Auton. Neurosc. Basic Clin.) (Netherlands) April 30, 2004 , 111/2 (116-126)

CODEN: ANUEB **ISSN:** 1566-0702

Publisher Item Identifier: S1566070204000293

Item Identifier (DOI): [10.1016/j.autneu.2004.01.005](https://doi.org/10.1016/j.autneu.2004.01.005)

Document Type: Journal ; Article **Record Type:** Abstract

Language: English **Summary language:** English

Number of References: 35

Medical Descriptors:

*

...mechanical stimulation; mechanoreceptor; median nerve; microelectrode; nerve ending; priority journal; skin blood flow; stimulus; sweating; **sympathetic tone; touch;** vasoconstriction; wrist

Orig. Descriptors:

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3.K/30 (Item 12 from file: 972)

DIALOG(R)File 972: EMBASE

(c) 2011 Elsevier B.V. All rights reserved.

0078688492 EMBASE/MEDLINE No: 2001294821

Quantitative sensory testing, neurophysiological and psychological examination in patients with complex regional pain syndrome and hemisensory deficits

Rommel O.; Malin J.-P.; Zenz M.; Janig W.

Department of Clinical Neurology, Ruhr-University, Bochum, Germany; BG-Kliniken Bergmannsheil, D-44789 Bochum, Germany

Corresp. Author/Affil: Rommel O.: BG-Kliniken Bergmannsheil, Burke-de-la-Camp Platz 1, D-44789 Bochum, Germany

Pain (Pain) (Netherlands) August 31, 2001 , 93/3 (279-293)

CODEN: PAIND **ISSN:** 0304-3959

Publisher Item Identifier: S0304395901003323

Item Identifier (DOI): [10.1016/S0304-3959\(01\)00332-3](https://doi.org/10.1016/S0304-3959(01)00332-3)

Document Type: Journal ; Article **Record Type:** Abstract

Language: English **Summary language:** English

Number of References: 48

Medical Descriptors:

*

...disease; nerve conduction; neurologic examination; neurophysiology; nociception; pain threshold; perceptive threshold; priority journal; psychologic test; **sympathetic tone**; temperature sense; thermal stimulation; **touch**

Orig. Descriptors:

Dialog eLink:

USPIO Full Text Retrieval Options

52/3,K/31 (Item 13 from file: 972)

DIALOG(R)File 972: EMBASE

(c) 2011 Elsevier B.V. All rights reserved.

0052327325 **EMBASE/MEDLINE No:** 2007815345C

Connective tissue massage: influence of the introductory treatment on autonomic functions

Kiener C.D.; Taslitz N.

Ohio State Univ. C. D, Columbus, OH

Corresp. Author/Affil: Kiener C.D.: Ohio State Univ. C. D, Columbus, OH

J. Amer. Phys. Ther. Ass. December 1, 1968 , 48/2 (107-119)

Document Type: Journal ; Article **Record Type:** Abstract

Language: English **Summary language:** English

Connective tissue massage: influence of the introductory treatment on autonomic functions

...be determined and an objective means for evaluating the technique established. The proponents of Bindegeewebe **massage** have reported many therapeutic benefits of the **massage** and have attempted to explain the physiologic responses of the body to the **massage**. Although Bindegeewebe**massage** is believed to have a primary influence on the autonomic nervous system, few... ..not as great as the variations between either control and Bindegeewebe**massage**. The presence of a **physical therapist's** applying superficial

strokes did have some effect toward increased sympathetic activity, but the subjects...
...respond to the therapist's presence and the 'laying-on-of-hands' during the Bindegewebe
massage treatments. The relaxation and parasympathetic activity, said to be induced by
Bindegewebsmassage did not occur...

Medical Descriptors:

* connective tissue; ***massage**

blood pressure; heart rate; nervous system; physiotherapist; skin conductance; skin
temperature; stimulation; stimulus; stroke; **sympathetic tone**

Orig. Descriptors:

52/3,K/32 (Item 1 from file: 50)
DlAl.OG(R)File 50: CAB Abstracts
(c) 2011 CAB International. All rights reserved.

0006436842 **CAB Accession Number:** 19910448128

**Milking machine induced teat tissue reactions with special emphasis on beta-
adrenoceptor stimulation.**

Hamann, J.

Institute for Hygiene, Federal Dairy Research Centre, 2300 Kiel, Germany.

Brief Communications of the XXIII International Dairy Congress, Montreal, October 8-
12, 1990, Vol. I.

Conference Title: Brief Communications of the XXIII International Dairy Congress,
Montreal, October 8-12, 1990, Vol. I.
p.271 (507)

Publication Year: 1990

Publisher: International Dairy Federation Brussels, Belgium

ISBN: 0-9694713-4-3

Language: English

Record Type: Abstract

Document Type: Abstract only; Conference paper

The reactivity of the teat tissue to mechanical **forces applied** during milking will be
influenced by the **sympathetic tone**, and the number and ratio of alpha- and beta-
adrenergic receptors located in the teat... .. expected physiological responses of the teat
tissue are more or less over-ridden by the **applied mechanical forces**. The increase in teat
end thickness after 15 min overmilking at 50 kPa vacuum was...

Broader Terms: ...vertebrates;

CABICodes:

Dialog eLink:

USPTO Full Text Retrieval Options

52/3,K/33 (Item 1 from file: 164)

DIALOG(R)File 164: Allied & Complementary Medicine

(c) 2011 BLHCIS. All rights reserved.

00228712 **The British Library:** 0018394

Beröring, massage och behandlingseffekter

Lund I

Nord Fysioter, Volume: 4, Issue: 3, Page: 104-7

2000

Document Type: Journal Article

Language: Swedish

Record Type: Abstract

ISSN: 1402-3024

Descriptors - Key Word : PAIN; MESSAGE; TOUCH; PHYSIOTHERAPY;
METHODS; PHYSIOLOGY

Beröring, massage och behandlingseffekter

Abstract (English Summary): Sensory stimulation by the use of **massage** has been used in all cultures since early civilisation in order to treat diseases, pain... ...developed pain research has resulted in a re-evaluation of older treatment methods such as **massage**. The effects of this method are based on an increased activity in the endogenous systems by afferent stimulation of peripheral nerves originating in skin and musculature. During **massage** different types of mechano-receptors are most likely activated thereby inducing activity in the afferent fibres, e.g. the Ad- and possibly **touch** sensitive C-fibres. This activity gives rise to a reduced transmission of pain impulses at the **spinal** level in accordance with "the gate control theory of pain". Besides the pain relieving effect modulation of the **sympathetic tone** and endocrinological as well as behavioral effects have been shown. Increased levels of oxytocin in... ...in cerebrospinal fluid have been demonstrated following sensory stimulation that is non noxious, e.g. **touch** and stroking, and shown to trigger the effects of an "anti-stress" pattern including anxiolysis.

Descriptors - Key Word : PAIN; MESSAGE; TOUCH; PHYSIOTHERAPY;
METHODS; PHYSIOLOGY

FULLTEXT

? show files

File 9:Business & Industry(R) Jul/1994-2011/Jan 31
 (c) 2011 Gale/Cengage
 File 16:Gale Group PROMT(R) 1990-2011/Jan 21
 (c) 2011 Gale/Cengage
 File 160:Gale Group PROMT(R) 1972-1989
 (c) 1999 The Gale Group
 File 148:Gale Group Trade & Industry DB 1976-2011/Jan 31
 (c) 2011 Gale/Cengage
 File 621:Gale Group New Prod.Annou.(R) 1985-2011/Dec 02
 (c) 2011 Gale/Cengage
 File 441:ESPICOM Pharm&Med DEVICE NEWS 2011/Jan W5
 (c) 2011 ESPICOM Bus.Intell.
 File 149:TGG Health&Wellness DB(SM) 1976-2011/Jan W4
 (c) 2011 Gale/Cengage
 File 15:ABI/Inform(R) 1971-2011/Jan 31
 (c) 2011 ProQuest Info&Learning
 File 47:Gale Group Magazine DB(TM) 1959-2011/Dec 29
 (c) 2011 Gale/Cengage
 File 624:McGraw-Hill Publications 1985-2011/Jan 31
 (c) 2011 McGraw-Hill Co. Inc
 File 635:Business Dateline(R) 1985-2011/Jan 31
 (c) 2011 ProQuest Info&Learning
 File 636:Gale Group Newsletter DB(TM) 1987-2011/Jan 31
 (c) 2011 Gale/Cengage
 File 649:Gale Group Newswire ASAP(TM) 2011/Dec 06
 (c) 2011 Gale/Cengage
 File 135:NewsRx Weekly Reports 1995-2011/Jan W4
 (c) 2011 NewsRx
 File 619:Asia Intelligence Wire 1995-2011/Jan 31
 (c) 2011 Fin. Times Ltd
 File 457:The Lancet 1992-2011/Jan W4
 (c) 2011 Elsevier Limited.All rights res
 File 444:New England Journal of Med. 1985-2011/Jan W4
 (c) 2011 Mass. Med. Soc.

? ds

Set	Items	Description
S1	115168	SYMPATHETI?
S2	39855	S1/2006:2011
S3	75313	S1 NOT S2
	LIMITALL S3	
S4	4725	TONE OR TONES
S5	2189	NEURAL? OR NEURON?
S6	1318	QUANTIF?
S7	119	S3(5N) (QUANTITY OR QUANTITIES OR AMOUNT OR AMOUNTS OR TOTAL OR TOTALS OR SUM OR SUMS OR NUMERICAL?)
S8	3261	S1() (NERVE OR NERVES OR NERVOUS OR FIBER OR FIBERS OR FIBRE OR FIBRES OR GANGLIA? ? OR GANGLIU?)
S9	434	S1()S4
S10	486	S1()S5
S11	20	S7 AND (S8:S10)
S12	17	RD (unique items)

S13 1 S7/TI
 S14 28 S1(7N)S6
 S15 23 S14 AND (S8:S10)
 S16 20 S15 NOT (S11 OR S13)
 S17 15 RD (unique items)
 S18 12 S9(7N)(MEASUR? OR ASSESS? OR ASCERTAIN? OR DETERMIN? OR
 CALCULAT? OR COMPUTE OR COMPUTES OR COMPUTED OR COMPUTING OR
 COMPUTATION? ? OR GAUGG?)
 S19 5 S18 NOT (S15 OR S11 OR S13)
 S20 4 RD (unique items)
 ? log off

12/3,K/6 (Item 6 from file: 149)
 DIALOG(R)File 149: TGG Health&Wellness DB(SM)
 (c) 2011 Gale/Cengage. All rights reserved.

01667493 **Supplier Number:** 19088476 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Effect of transcutaneous electrical nerve stimulation on the pressor response to static handgrip exercise.

Hollman, Julie E.; Morgan, Barbara J.
 Physical Therapy, v77, n1 , p28(9)
 Jan ,
 1997

Publication Format: Magazine/Journal
ISSN: 0031-9023
Language: English
Record Type: Fulltext; Abstract **Target Audience:** Professional
Word Count: 4876 **Line Count:** 00450

Text:

Key Words: Blood pressure, Static exercise, **Sympathetic nervous** system, Transcutaneous electrical nerve stimulation.

...TENS during a sustained muscle contraction should attenuate the expected increases in arterial pressure and **sympathetic neural** outflow. Accordingly, we measured arterial pressure, heart rate, and sympathetic outflow to skeletal muscle during...

...on paper(double dagger) and videotape.({sections},{parallel})
 (Figure 1 ILLUSTRATION OMITTED)

Recording of muscle **sympathetic nerve** activity.
 Recordings of postganglionic **sympathetic nerve** activity were

made by the technique of Vallbo et al.(13) The bony prominence of...

...filtered neurogram and by an upward shift in baseline on the mean voltage neurogram. Muscle **sympathetic nerve** activity is easily identified by its characteristic pulse-synchronous rhythm and its responsiveness to baroreflex...of TENS. After a rest period of 10 minutes, the handgrip exercise was repeated. Muscle **sympathetic nerve** activity was not measured as part of the preliminary protocols.

Protocol 1: pressor response to...

...a computer program with a sampling rate of 128 HZ.(18) For purposes of quantification, **sympathetic nerve** activity was expressed as burst frequency (in bursts per minute) and as total minute activity...
...caused by muscle tension were excluded from analysis. Values for arterial pressure, heart rate, and **sympathetic nerve** activity obtained during the control period and during the final 15 seconds of handgrip exercise were used for analysis. Changes in arterial pressure, heart rate, and **sympathetic nerve** activity from baseline to the second minute of handgrip exercise during with-TENS and without...8

Total ...When static handgrip exercise was performed with concomitant application of TENS over the ipsilateral forearm, **sympathetic** activation was attenuated. The **amount** of **sympathetic** activation, expressed both as increase in burst frequency and as percentage of increase in total...

12/3,K/9 (Item 9 from file: 149)
DIALOG(R)File 149: TGG Health&Wellness DB(SM)
(c) 2011 Gale/Cengage. All rights reserved.

01281047 **Supplier Number: 10998675**
Sympathetic muscle nerve activity during sleep in man.

Hornyak, Magdolna; Cejnar, Michael; Elam, Mikael; Matousek, Milos; Wallin, B. Gunnar
Brain , v114 , n3 , p1281(15)
June ,
1991

Publication Format: Magazine/Journal

ISSN: 0006-8950

Language: English

Record Type: Abstract **Target Audience:** Professional

Abstract: ...nervous system, which generally controls the physiological responses outside of voluntary control. The activity of **sympathetic nerves** has not been recorded during sleep in humans. It is possible, however, to measure the... ..during sleep. Although skeletal muscle is under voluntary control, it also receives nerves from the **sympathetic nervous system** which uses muscle responses as part of the means for regulating blood pressure. The...

Abstract:

Captions: Polygraphic recording of one subject during sleep. (chart); Summary and data from all patients. (table); **Total muscle sympathetic activity** and EEG activity. (graph); Gradual fall of **total muscle sympathetic activity** during sleep. (graph); Polygraphic recordings in four subjects. (chart); Changes: muscle sympathetic activity, heart...

12/3,K/14 (Item 1 from file: 457)

DIALOG(R)File 457: The Lancet

(c) 2011 Elsevier Limited.All rights res. All rights reserved.

0000148631

****USE FORMAT 7 OR 9 FOR FULL TEXT****

Obstructive sleep apnoea and stroke

Yaggi, Henry; Mohsenin, Vahid

The Lancet Neurology vol. 3 , 6 PP: 333-342 Jun 2004 **Document Type:**

PERIODICAL; General Information **Language:** English **Record Type:** New; Fulltext

Length: 10 Pages

Word Count: 8518

Text:

...pressure, showed a gradual increase in waking arterial pressure.²⁸ In

human beings, recordings of **sympathetic nerve** activity during

wakefulness show that patients with sleep apnoea have significantly higher

amounts of sympathetic nerve activity than controls

matched for age and gender.²⁹ In addition, the link between hypertension...

Cited References:

...Respir Dis 1992; 146: 321-29.

29 Somers V, Dyken M, Clary M, Abboud F. **Sympathetic neural mechanisms in obstructive sleep apnea.** J Clin Invest 1995;

96: 1897-904.

30 Fletcher E...

17/3,K/1 (Item 1 from file: 148)

DIALOG(R)File 148: Gale Group Trade & Industry DB

(c) 2011 Gale/Cengage. All rights reserved.

05242912 **Supplier Number:** 11428531

Evidence of a selective increase in cardiac sympathetic activity in patients with sustained ventricular arrhythmias.

Meredith, Ian T.; Broughton, Archer; Jennings, Garry L.; Esler, Murray D.

New England Journal of Medicine , v325 , n9 , p618(7)

August 29 , 1991

ISSN: 0028-4793

Language: ENGLISH

Record Type: ABSTRACT

Abstract: ...are more likely to die of sudden cardiac death. One of the functions of the **sympathetic nervous** system is to regulate the heart, and it is suggested that there is a relationship between cardiac **sympathetic** activity and ventricular arrhythmia. To quantify **sympathetic nervous** activity in the hearts of high-risk patients, 10 men and 2 women who had... (blood using radioactive isotopes) were used to trace norepinephrine, an adrenal hormone that regulates the **sympathetic nervous** system. An almost five-fold increase in cardiac norepinephrine spillover into the bloodstream was found, providing evidence of long-lasting activation of the **sympathetic nervous** system in these patients. Whether such a measurement will be useful in predicting which patients...

17/3,K/2 (Item 1 from file: 149)

DIALOG(R)File 149: TGG Health&Wellness DB(SM)

(c) 2011 Gale/Cengage. All rights reserved.

02198152 **Supplier Number:** 102519791 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Autonomic modulation in adolescent obesity. (Obesity). (Author Abstract)

Nutrition Research Newsletter , 22 , 5 , 10(2)

May ,

2003

Document Type: Author Abstract **Publication Format:** Newsletter

ISSN: 0736-0037

Language: English

Record Type: Fulltext **Target Audience:** Academic; Professional

Word Count: 493 **Line Count:** 00046

Recent research has applied methods for **quantifying sympathetic nervous** pathophysiology in obesity-related hypertension. However, there is controversial data on this subject. A recent...

...groups, LF, but not nonlinear, measures were similar to lean controls, suggesting biphasic behavior of **sympathetic tone**. The nonlinear analysis showed a decreasing trend with the duration of obesity. Long-term HRV...

17/3,K/3 (Item 1 from file: 15)

DIALOG(R)File 15: ABI/Inform(R)

(c) 2011 ProQuest Info&Learning. All rights reserved.

03847887

904376961

University of Groningen, Haren Research in diet and nutrition provides new insights

Anonymous

Lab Business Week pp: 274

Oct 9, 2005

ISSN: 1552-6461 **Journal Code:** LBBW

Word Count: 1134

Text:

...dijk@rug.nl.

Study 2: High-fat diet causes insulin changes related to a decreased **sympathetic tone**, which may lead to impaired glucose homeostasis.

According to a study from France, "To evaluate...

...Moreover," the researchers wrote, "we measured pancreatic and hepatic norepinephrine (NE) turnover, as assessment of **sympathetic tone**, and performed hypothalamic microdialysis to **quantify** extracellular NE turnover. Baseline plasma triglyceride, free fatty acid, insulin, and glucose concentrations were similar...

...and a twofold decrease in the fractional turnover constant was observed,

indicating a change in **sympathetic tone**."

The scientists noted, "In ventromedian hypothalamus of HF rats, the decrease in NE extracellular concentration...

...treatment with oxymetazoline, an alpha(2A)-adrenoreceptor agonist, thus suggesting the involvement of a low **sympathetic tone** in insulin hypersecretion in response to glucose in HF rats," the research team wrote.

"The...

...diet rapidly results in an increased GIIS, at least in part related to a decreased **sympathetic tone**, which can be the first step of a cascade of events leading to impaired glucose...

...in insulin secretion and action induced by high-fat diet are related to a decreased **sympathetic tone**. Am J Physiol Endocrinol Metab, 2005;288(1):E148-E154).

For more information, contact C...

17/3,K/6 (Item 1 from file: 135)
DIALOG(R)File 135: NewsRx Weekly Reports
(c) 2011 NewsRx. All rights reserved.

0000416385 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Studies reveal new findings from Monash University, Australia, research
Life Science Weekly, January 23, 2007, p.1372

DOCUMENT TYPE: Expanded Reporting
LANGUAGE: English
RECORD TYPE: FULLTEXT
WORD COUNT: 1175 ...and heart disease."

"We estimated cardiac vagal activity from heart rate variability (HRV) measurements and **quantified sympathetic nervous system (SNS)** activity using plasma noradrenaline

tracer kinetics methodology," wrote M.E. Alvarenga and colleagues... ..healthy volunteers in whom HRV was measured also provided psychological measures."

According to their findings, " **Sympathetic nervous** tone in the heart, based on rates of cardiac noradrenaline spillover, was normal in PD... ..plasma noradrenaline kinetics measurements."

The investigators concluded, Defective neuronal reuptake of noradrenaline, by augmenting the **sympathetic neural** signal in the heart, might have a dual effect, sensitizing the heart such as to...

17/3,K/7 (Item 2 from file: 135)
DIALOG(R)File 135: NewsRx Weekly Reports
(c) 2011 NewsRx. All rights reserved.

0000254204 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Researchers describe findings in hypertension studies

Cardiovascular Week, October 31, 2005, p.34

DOCUMENT TYPE: Expanded Reporting

LANGUAGE: English

RECORD TYPE: FULLTEXT

WORD COUNT: 1055 ...Teaching Hospitals wrote, "[Our] study was designed, in patients with untreated essential hypertension (EHT), to **quantify** changes in simultaneously measured peroneal muscle **sympathetic nerve** activity (MSNA) and calf vascular resistance (CVR) accompanying atenolol therapy. MSNA was quantified as the... ..com

The information in this article comes under the major subject areas of Antihypertensive Therapy, **Sympathetic Nervous** System, Hypertension, Essential, Vascular Resistance, and Endocrinology.

This article was prepared by Cardiovascular Week editors...

DESCRIPTORS: Antihypertensive Therapy; Atenolol; Cardiology; Dermatology; Drugs; Essential; Hypertension; Iloprost; Pharmaceuticals; **Sympathetic Nervous** System; Therapy; Treatment; University of Giessen; Vascular Resistance; and Endocrinology; All News; Professional News

17/3,K/11 (Item 6 from file: 135)
DIALOG(R)File 135: NewsRx Weekly Reports
(c) 2011 NewsRx. All rights reserved.

0000193804 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Pattern of outflow to muscles may be similar to chronological changes at neurons

Cardiovascular Week, February 21, 2005, p.10

DOCUMENT TYPE: Expanded Reporting
LANGUAGE: English
RECORD TYPE: FULLTEXT
WORD COUNT: 371

TEXT:

...in amyotrophic lateral sclerosis.

According to the report from Japan, "To confirm correlations between muscle **sympathetic nerve** activity (MSNA) and patients' chronological data, we selected 40 consecutive patients with sporadic amyotrophic lateral sclerosis (ALS) recorded by similar methods. MSNA at rest was **quantified** as the number of **sympathetic** bursts per 100 heartbeats and as the value expressed as a percentage of the predicted... The information in this article comes under the major subject areas of Sympathetic Outflow, Muscle **Sympathetic Nerve** Activity, Amyotrophic Lateral Sclerosis, Chronological Change, and Neurology.

This article was prepared by Cardiovascular Week...